

# Dmitri Schebarchov

## List of Publications by Citations

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33  
papers

617  
citations

17  
h-index

24  
g-index

34  
ext. papers

675  
ext. citations

5.7  
avg, IF

4.25  
L-index

#	Paper	IF	Citations
33	Capillary absorption of metal nanodroplets by single-wall carbon nanotubes. <i>Nano Letters</i> , <b>2008</b> , 8, 2253-2257	7.5	61
32	Superheating and solid-liquid phase coexistence in nanoparticles with nonmelting surfaces. <i>Physical Review Letters</i> , <b>2006</b> , 96, 256101	7.4	37
31	Solid-liquid phase coexistence and structural transitions in palladium clusters. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	36
30	Simple accurate approximations for the optical properties of metallic nanospheres and nanoshells. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4233-42	3.6	34
29	Dynamics of capillary absorption of droplets by carbon nanotubes. <i>Physical Review E</i> , <b>2008</b> , 78, 046309	2.4	32
28	Static, transient, and dynamic phase coexistence in metal nanoclusters. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 104701	3.9	32
27	Transition from icosahedral to decahedral structure in a coexisting solid-liquid nickel cluster. <i>Physical Review Letters</i> , <b>2005</b> , 95, 116101	7.4	31
26	Electronic effects on the melting of small gallium clusters. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 144303	3.9	29
25	Communication: a new paradigm for structure prediction in multicomponent systems. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 221101	3.9	28
24	Throwing jellium at gallium--a systematic superatom analysis of metalloid gallium clusters. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 21109-15	3.6	28
23	Uptake and withdrawal of droplets from carbon nanotubes. <i>Nanoscale</i> , <b>2011</b> , 3, 134-41	7.7	26
22	Structure, thermodynamics, and rearrangement mechanisms in gold clusters--insights from the energy landscapes framework. <i>Nanoscale</i> , <b>2018</b> , 10, 2004-2016	7.7	25
21	Grand and Semigrand Canonical Basin-Hopping. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 902-9	6.4	21
20	Quasi-combinatorial energy landscapes for nanoalloy structure optimisation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28331-8	3.6	20
19	Structure prediction for multicomponent materials using biminima. <i>Physical Review Letters</i> , <b>2014</b> , 113, 156102	7.4	20
18	Electronic shell structure in Ga <sub>12</sub> icosahedra and the relation to the bulk forms of gallium. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 9912-22	3.6	20
17	Core-Shell Bimetallic Nanoparticle Trimers for Efficient Light-to-Chemical Energy Conversion. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3881-3890	20.1	18

16	Interplay of wetting and elasticity in the nucleation of carbon nanotubes. <i>Physical Review Letters</i> , <b>2011</b> , 107, 185503	7.4	16
15	Impurity effects on solid-solid transitions in atomic clusters. <i>Nanoscale</i> , <b>2016</b> , 8, 18326-18340	7.7	13
14	Approximate T matrix and optical properties of spheroidal particles to third order with respect to size parameter. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	12
13	Filling a nanoporous substrate by dewetting of thin films. <i>Nanoscale</i> , <b>2013</b> , 5, 1949-54	7.7	12
12	Thermal instability of decahedral structures in platinum nanoparticles. <i>European Physical Journal D</i> , <b>2007</b> , 43, 11-14	1.3	10
11	Effects of epitaxial strain on the melting of supported nickel nanoparticles. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
10	Molecular dynamics study of the melting of a supported 887-atom Pd decahedron. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 144204	1.8	9
9	Reverse capillary action in carbon nanotubes: sucking metal nanoparticles out of nanotubes. <i>Small</i> , <b>2011</b> , 7, 737-40	11	8
8	Structure and Thermodynamics of Metal Clusters on Atomically Smooth Substrates. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5402-5407	6.4	7
7	Degenerate Ising model for atomistic simulation of crystal-melt interfaces. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 074704	3.9	5
6	Superheating in metal nanoparticles with non-melting surfaces. <i>European Physical Journal D</i> , <b>2009</b> , 53, 63-68	1.3	5
5	In Situ Visualization of Site-Dependent Reaction Kinetics in Shape-Controlled Nanoparticles: Corners vs Edges. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14746-14753	3.8	3
4	Healing and sealing carbon nanotubes--growth and closure within a transmission electron microscope. <i>Nanoscale</i> , <b>2011</b> , 3, 1493-6	7.7	1
3	Molecular dynamics simulations of nanoparticles. <i>International Journal of Nanotechnology</i> , <b>2009</b> , 6, 274	1.5	1
2	Multiple scattering of light in nanoparticle assemblies: User guide for the terms program. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2022</b> , 284, 108131	2.1	1
1	Comment on "Dynamic catalyst restructuring during carbon nanotube growth". <i>ACS Nano</i> , <b>2011</b> , 5, 685; author reply 686-7	16.7	